

PU010015 JPJMF (JP9018841)

(11) Publication number: 09-018841

(43) Date of publication of application: 17.01.1997

(51) Int.Cl. H04N 7/025

H04N 7/03

H04N 7/035

H04N 5/445

(21) Application number: 07-167222

(22) Date of filing: 03.07.1995

(71) Applicant: Matsushita Electric IND CO LTD

(72) Inventor: Fukita Kyoko, Watanabe Yoshinao

(54) Name of the invention: Character broadcasting receiver

(57) Abstract:

Problem to be solved: To notify that broadcasting of an emergency program other than a reception program is started or its contents are updated by detecting the start and contents update of a specific character broadcasting program to display them on the screen.

Solution:

The text signal inputted to an input terminal 1 is inputted to a character signal processing part 3 and is subjected to character signal processing and is stored in a display memory 4 and is inputted to a switching mixer 5 at need. If contents of the program number preliminarily registered are updated in the character signal processing part 3, update data is sent to a CPU 8, and a display

message to report that contents are updated is generated by a character generator 9 and is inputted to the switching mixer 5. This mixer 5 selects or mixes video and characters. When a program is started or contents are updated at this time, the display message generated by the character generator 9 is selected. This selected or mixed signal is processed in a display processing part 6 and is displayed on a cathode-ray tube 7.

[Claims]

[Claim 1]

The teletext receiver that is equipped with a means to register a teletext program number, a means to recognize that the registered program was broadcast, and a means to recognize that the registered contents of a program were updated, and is equipped with the function that displays star of broadcast of the mentioned above registered program, and contents update on a screen.

[Detailed description of the invention]

[0001]

[Industrial Application] This invention relates to the teletext receiver that displays the start and the contents update of a specific program on a screen.

[0002]

[Description of the prior art] In recent years, as for character broadcast, various programs are broadcast from broadcasting station, and their number exceeds 100 in urban areas. Many of alphabetic character programs can consist of dozens pages that are sent at intervals of 10 - 20 seconds. For example, programs such as news and the

like are substituted for the newest information. The reception method of the conventional teletext receiver will wait until the selected program is sent, or memory will store a program, and a program to watch out of it will be called. Also, if the page is updated from the former page when a program is chosen, there is also the function that is displayed on a screen.

[0003]

[Problems to be solved by the invention] However, with the above configurations, since the start or the contents update of other programs had not been recognized while showing one program, receiving the broadcast in emergency and the information that is obtained in the right time is difficult.

[0004]

This invention offers the teletext receiver that detects the start and the contents update of a specific program of those other than a television program, and is displayed on a screen in view of the above mentioned problem.

[0005]

[Means for solving the problem] The teletext receiver of this invention is equipped with a means to register a teletext program number, a means to recognize that the registered program was broadcast, and the registered contents of a program were updated, and displays start of broadcast of the mentioned above registered program, and update of the contents on a screen in order to solve the above mentioned problem.

[0006]

[Function] According to the above configurations, when the program that has registered the program also in televising is started or the contents of broadcast are updated, new information can be quickly acquired by displaying on a screen.

[0007]

[Example] Hereafter, the teletext receiver in one example of this invention is explained using a figure. Figure 1 is the block diagram of the teletext receiver in one example of this invention.

[0008]

In figure 1, 1 is the input terminal that inputs an alphabetic character multiple signal, 2 is the Image Processing Part that processes a video signal, 3 is the alphabetic character signal-processing part, 4 is the display memory that stores alphabetic data, 5 is the switching mixer that switches the image, 6 is the display process part that displays the signal outputted from the switching mixer 5 on the Cathode-ray tube 7, and 8 is the CPU that control a character generator 9 and the switching mixer 5.

[0009]

Actuation of the teletext receiver in one example of this invention constituted as mentioned above is explained. First, the alphabetic character multiple signal inputted from the input terminal 1 is processed in the Image Processing Part 2 as a video signal, and is inputted into the switching mixer 5. On the other hand, alphabetic character signal processing of the alphabetic character

multiple signal is inputted and carried out also to the alphabetic character signal-Processing Part, it is memorized by display memory, and is inputted into a switching mixer if needed. In the alphabetic character signal-Processing Part, when the contents of the program number registered preliminary are updated, updating data are sent to CPU 8, and a display message to report that contents are updated is generated by a character generator 9, and are inputted into the switching mixer 5. An image and an alphabetic character are chosen or mixed in the switching mixer 5. If there are the start and the contents update of a program at this time, the display sentence created with the character generator 9 will be chosen. This signal chosen or mixed is processed in the display process section 6, and is displayed on the Cathode-ray tube 7.

[0010]

[Effect of the invention] A means to register a teletext program number as mentioned above according to this invention, having a means to recognize that the registered program was broadcast, and a means to recognize that the registered contents of a program were updated, and having the function that displays star of broadcast of the mentioned above registered program, and contents update on a screen. Also, while watching other alphabetic character programs, it can recognize immediately that the updated text has been sent.

[Brief description of the figures]

[Figure 1] The block diagram of the teletext receiver in one example of this invention

[Description of notations]

- 1 Alphabetic Character Multiple-Signal Input Terminal
- 2 Image Processing Part
- 3 Alphabetic Character Signal-Processing Part
- 4 Display Memory
- 5 Switching mixer
- 6 Display-Processing Part
- 7 Cathode-ray tube
- 8 CPU
- 9 Character Generator

Figure 1

